

**From:** [Garbarini, Doug](#)  
**To:** [Carpenter, Angela](#)  
**Cc:** [Carr, Brian](#); [Singerman, Joel](#)  
**Subject:** FW: Gowanus  
**Date:** Thursday, July 16, 2015 10:17:38 AM  
**Attachments:** [Flooding.pptx](#)

---

Angela

It appears as though the storm event was big enough that the tanks would not have fully captured the CSO, but nonetheless would have captured the first flush of runoff from the streets and millions of gallons of CSO. See Brian's email below for some historical photos of past flood events, a link to pictures and video of yesterday's flood event, and the NYC advisory. The advisory provides rainfall readings at 3 locations, but the rain event was likely much larger locally.

---

**From:** Carr, Brian  
**Sent:** Thursday, July 16, 2015 9:53 AM  
**To:** Garbarini, Doug  
**Cc:** Singerman, Joel  
**Subject:** RE: Gowanus

Flooding has occurred routinely as long as the canal has been around because the area is so low-lying. See the attached photos, just a few of the dozens we have.

Resiliency of the remedy has been evaluated and will be addressed during the RD. The impact of flooding would not change the siting – the tanks need to be at the end of the pipes, just like the outfalls. The mechanicals need to be protected.

This storm would likely not be fully captured, but we'd get the first flush, and obviously millions of gallons of the CSO event would be reduced. There was also probably a high tide, which would have closed the CSO tide gates, adding to the backups in the streets, which you can see in the video still on this website of the gushing manhole:

<http://www.villagevoice.com/news/the-gowanus-canal-has-flooded-and-its-exactly-as-gross-as-youre-imagining-7379746>

My main interest is finding the actual rain measurement for yesterday at the Canal, said to be 1.5 inches, since the City's model relies on JFK readings, which vary widely from the other gauges.

Here's yesterday's NYC advisory:

This file written at 7/15/2015 7:00 AM  
Rainfall at three NOAA rain gauges over the past 24 hours in inches:  
JFK Airport: 0.13  
LaGuardia Airport: 0.95  
Central Park: 0.42  
List of Advisories

GOWANUS CANAL: CSO Advisory until 7/15/2015 3:00 PM  
NEWTOWN CREEK: CSO Advisory until 7/16/2015 3:00 AM  
WESTCHESTER CREEK: CSO Advisory until 7/15/2015 3:00 PM  
Current CSO advisories: 3

A CSO Waterbody Advisory has been issued. For more info on affected waterbodies, call 311  
or go to <http://on.nyc.gov/JJmJoK>